

1 Claims

2 I claim:

1. A spray paint gun comprising
a gun body having a male thread, and
an air nozzle ring having female thread, the female thread being adapted to be
screwed onto the male thread,
wherein the thread is a trapezoid thread having a flank angle in the range of about
+/- 20% of 30°, wherein the diameter of the thread is between about 30 and about 40 mm
and wherein
 - a. the thread height is within the range of about +/- 20% of 1.1 mm,
 - b. the root to crest clearance is within the range of about +/- 20% of 0.1 mm,
 - c. the flank clearance is within the range of about +/- 20% of 0.15 mm.
2. A spray gun according to claim 1, wherein the pitch is in the range of about +/- 20% of 2.5 mm.

15 3. A spray gun according to claim 1, wherein the core diameter and the outer
16 diameter of the male thread of the gun body have a tolerance in the range of about +/-
17 20% of -0.05 mm, respectively.

1 4. A spray gun according to claim 2, wherein the core diameter and the outer
2 diameter of the male thread of the gun body have a tolerance in the range of about +/-
3 20% of -0.05 mm, respectively.

4 5. A spray gun according to claim 1, wherein the core diameter and the outer
5 diameter of the female thread of the air nozzle ring have a tolerance in the range of about
6 +/- 20% of +0.1 mm, respectively.

7 6. A spray gun according to claim 2, wherein the core diameter and the outer
8 diameter of the female thread of the air nozzle ring have a tolerance in the range of about
9 +/- 20% of +0.1 mm, respectively.

10 11 7. A spray gun according to claim 3, wherein the core diameter and the outer
12 diameter of the female thread of the air nozzle ring have a tolerance in the range of about
13 +/- 20% of +0.1 mm, respectively.

14 15 8. A spray gun according to claim 4, wherein the core diameter and the outer
16 diameter of the female thread of the air nozzle ring have a tolerance in the range of about
17 +/- 20% of +0.1 mm, respectively.

1 9. A spray gun according to claim 2, wherein the pitch has a tolerance in the range of
2 about +/- 20% of +/- 0.1 mm.

10. A spray gun according to claim 1, wherein the nominal diameter of the trapezoid thread is about 38 mm.

5 11. A spray gun according to claim 2, wherein the nominal diameter of the trapezoid
6 thread is about 38 mm.